

MEETING MINUTES

Public Hearing
Teller County Water & Sanitation District #1
Woodland Park, Colorado

Date: June 24th, 2022

Time: 6:00 PM

Location: Woodland Park Community Church

Address: 800 Valley View Dr. Woodland Park, CO 80863

Subject: Water Treatment Plant Facility Upgrade for Radium Removal

Attendees:

Please refer to the meeting's sign in sheet for a complete list of attendees.

A presentation of the planned upgrade to the existing water treatment plant to remove radium was provided by Mr. Mark D. Valentine, PE from the offices of JDS-Hydro Consultants a Division of RESPEC Company, LLC

The topics of discussion were:

- The need for the Project
- The need for Treatment
- Radium Treatment Alternatives
- The chosen Alternative
- Ion Exchange Process
- The existing Treatment Buildings
- New building to House Radium Treatment
- Single Use Ion Exchange Treatment Vessels
- Two Vessel Concept
- Norm/Tenorm
- Environmental Impacts
- Land Requirements
- Cost
- Schedule

There was a Question and Answer (Q&A) forum after the presentation. Following are an abridged publication of those Q&A topics (not necessarily in order)

1. Where does the radium come from and is the waste radioactive? Answer (A): Yes, radium is radioactive. Radium is a naturally occurring radioactive material (NORM) and are the result of the decay of uranium and thorium in the rocks and soils the water is extracted from. Technologically Enhanced Naturally Occurring Radioactive Material (TENORM) have been concentrated or exposed to the accessible environment as a result of human activities such as water processing.
2. Where does the waste go? A: When a TENORM determination is made in accordance with Colorado Department of Public Health & Environment (CDPHE) Regulations 6 CCR 1007-1 the waste must go to a licensed and regulated facility such as Clean Harbor's Deer Trail landfill north of Denver, or an equivalent.

3. Do we know what the radium level of well #11 is? A: Yes, however it is variable depending on usage, drought conditions and other factors. The wells are approximately 6.28 pCi/L (pico Curies per liter)
4. What is the anticipated level of Radium after treatment? A: Approximately 1 pCi/L
5. There are already carbon filter systems installed in the facility, why do we need more? A: The Carbon Filters do not remove radium, it requires specific filtering process to remove radium 226 and 228
6. What about using a point of use system? A: A point of use system requires mandatory inspections on the house plumbing systems by third party inspectors. These inspections require 100% compliance by all households and this has been historically a challenge for a municipal system.
7. Is there a possibility of blending all three wells to lower the level of radium to an acceptable level. A: No, blending of the wells will not lower the levels below the EPA recommended levels, however blending with the City of Woodland Parks water could reduce the levels.
8. Has blending with the City of Woodland Park been proposed? A: Yes, this presents other difficulties for our District and for Woodland Park that have made this approach not desirable at this time, such as the cost, durations and frequency of required sampling and testing
9. Can we go 100% use of Woodland Park water in the interim (waiting for the new filters to be installed)? A: Yes, but there are political and economic factors that make this difficult. The associated costs and time frame to achieve this could potentially exceed the proposed schedule to install new filters.
10. Are we designing a system to meet the full capacity of the water production at 70 Gallons per Minute (GPM) and what is the current average system usage. A: Yes we are designing to 70 GPM and the average usage is now at approximately 24GPM
11. Why are there are years missing from the water quality reports? A: This is not specifically known, however a reasonable presumption may be because radium is only required to be tested for every nine years unless you test positive. A positive result for radium above the recommended levels requires much more frequent and vigorous testing, that may also partially explain a gap in the number of reports (negative tests)
12. You were in violation of not reporting radium to the public in a timely manner, can you explain this? A: The water district was not in violation of reporting the radium levels to the public. There was a violation for reporting lead. These violations do not usually mean that there was a problem with the water quality. We may have missed collecting a sample (water quality is unknown), or reported the sample result after the due date, or we did not complete a report/notice by the required date. If there had been a water quality problem we would have notified you immediately.
13. Is this a one-time purchase of this system? A: Yes, it is a one-time purchase for equipment, however the filter media has to be changed approximately every 5 years and disposed of which will incur periodic costs.
14. How many households are currently on the system? A: 246 homes plus the Community Church.
15. How will this be paid for and will the costs be transferred to the end users? A: There are multiple vehicles for funding this project and currently there are not any immediate plans to raise household rates.
16. Are there any State, Federal or COVID funds available through agencies like Colorado Department of Local Affairs (DOLA) or the Infrastructure Investment and Jobs Act (IIJA)? A: No,

these funds are generally for socially and economically disadvantaged areas and this area does not qualify as that. COVID funds are not likely available for this project and are distributed by Teller County. There will be a hearing to discuss qualifications and dispersement of these funds maybe as soon as July for anyone interested.

17. Is State Revolving Fund (SRF) financing the most viable option for funding? A: Yes
18. When will the final costs be known? A: After receipt of final proposals following an advertisement for a Request for Proposal (RFP)
19. How close to the estimate will the final costs be? A: Plus or minus (+/-) 40%

Meeting Minutes prepared by Teller County Water & Sanitation District #1 and shall be deemed accurate as the record of matters discussed and conclusions reached. Corrections shall be reported to the Teller County Water & Sanitation District #1 within three (3) calendar days of distribution of this document .

The POC for the Teller County Water & Sanitation District #1 is Lisa Rector, Office Manager, (719) 687-0761.